



P A T E N T

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

C. Kindervater

Application No.: 10/608,277

Filed: June 27, 2003

For: **ENERGY ABSORBING SYSTEMS AND PROCESSES, AND PROCESSES FOR  
THE PRODUCTION OF ENERGY ABSORBING STRUCTURAL ELEMENTS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 26, 2003.

By:

*Carol Prentice*  
Carol Prentice

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

In accordance with 37 C.F.R. §1.56, Applicant wishes to call the attention of the Examiner to the following references:

**U.S. PATENT(S):**

<b><u>Patent No.</u></b>	<b><u>Patentee</u></b>	<b><u>Date of Issue</u></b>
3,313,541	Benkoczy et al.	Apr 11, 1967
4,097,626	Tennent	Jun 27, 1978
4,336,868	Wilson et al.	Jun 29, 1982
4,348,247	Loyd et al.	Sep 07, 1982
4,589,679	Wackerle et al.	May 20, 1986
4,601,367	Bongers et al.	Jul 22, 1986
4,946,721	Kindervater et al.	Aug 07, 1990
5,160,562	Kuch et al.	Nov 03, 1992

5,222,915	Petrzelka et al.	Jun 29, 1993
5,264,259	Satoh et al.	Nov 23, 1993
5,419,416	Miyashita et al.	May 30, 1995
5,665,192	Wolki et al.	Sep 09, 1997

**FOREIGN PATENT DOCUMENT(S) :**

<b><u>Country</u></b>	<b><u>No.</u></b>	<b><u>Date of Publication</u></b>
EPO	0 130 009	Jan 02, 1985
Germany	196 27 061	Nov 28, 1996
Great Britain	844,536	Aug 10, 1960
EPO	0 829 662	Mar 18, 1998
France	2 516 859	May 27, 1983
EPO	0 593 337	Apr 20, 1994
Japan	5115235	May 14, 1993

**PUBLICATIONS:**

Energy Absorbing Qualities of Fiber Reinforced Plastic Tubes, C.M. Kindervater, March 23-25, 1983 (15 pages)

Effect of Trigger Geometry on Crushing of Composite Tubes, D.Hull and J.C.Coppola, (1989) (2 pages)

Copies of the above-listed references are enclosed, together with a completed form PTO-1449.

This Information Disclosure Statement is being filed within three months of the filing date of the subject patent application, and therefore no fee is due.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,



**Date: September 26, 2003**  
**ATTORNEY DOCKET NO.: HOE-492.1**

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FORM PTO-1449

ATTY. DOCKET NO.: HOE-492.1

SERIAL NO.:  
10/608,277

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT(S): C. Kindervater

FILING DATE: June 27, 2003

GROUP:

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	3,313,541	04/11/1967	Benkoczy et al.			
	AB	4,097,626	06/27/1978	Tennent			
	AC	4,336,868	06/29/1982	Wilson et al.			
	AD	4,348,247	09/07/1982	Loyd et al.			
	AE	4,589,679	05/20/1986	Wackerle et al.			
	AF	4,601,367	07/22/1986	Bongers et al.			
	AG	4,946,721	08/07/1990	Kindervater et al.			
	AH	5,160,562	11/03/1992	Kuch et al.			
	AI	5,222,915	06/29/1993	Petrzelka et al.			
	AJ	5,264,259	11/23/1993	Satoh et al.			
	AK	5,419,416	05/30/1995	Miyashita et al.			
	AL	5,665,192	09/09/1997	Wolki et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANS- LATION YES NO
	AM	0 130 009	01/02/1985	EPO			
	AN	196 27 061	11/28/1996	Germany			
	AO	844,536	08/10/1960	Great Britain			
	AP	0 829 662	03/18/1998	EPO			
	AQ	2 516 859	05/27/1983	France			
	AR	0 593 337	04/20/1994	EPO			
	AS	5115235	05/14/1993	Japan			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AT	Energy Absorbing Qualities of Fiber Reinforced Plastic Tubes, C.M. Kindervater, March 23-25, 1983 (15 pages)
	AU	Effect of Trigger Geometry on Crushing of Composite Tubes, D.Hull and J.C.Coppola, (1989) (2 pages)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.